

## **202 ROADWAY EXCAVATION**

### **202.01 DESCRIPTION**

This work shall consist of excavation for the roadways, alleys, parking areas, driveways, sidewalks, approaches and stream channels to the lines and grades indicated in the contract documents. The work also includes the flattening and rounding of slopes, removal of slides, excavation for ditches, and cutting of existing pavement and base to neat lines at the limits of proposed pavement construction.

It shall include excavating material below the subgrade and beneath embankment areas which are determined to be unsuitable by the Engineer. The work shall also include the hauling and disposal of excavated material.

In the event that there is no item for clearing and grubbing included in the Schedule of Prices, all requirements of 201 shall be included as Excavation. All excavation will be classified as hereinafter described.

### **202.02 COMMON EXCAVATION**

Common Excavation shall consist of the excavation and removal of all materials encountered exclusive of Structural Excavation or excavation which is otherwise classified and paid for. When the contract documents include other classified excavation items they shall be used as specified and paid for separately.

Material from the excavation which meets the requirements of 203 may be used as specified therein.

### **202.03 HARD SURFACE PAVEMENT EXCAVATION**

Hard Surface Pavement Excavation shall include the removal and disposal of all asphalt surface and binder courses from concrete base; the removal of bituminous pavement complete, including concrete, asphalt block, asphaltic concrete or cobble bases; all stone curbing and concrete curb and gutter; all plain and reinforced cement concrete pavements and bases, driveways, alleys, concrete copings, steps; concrete, brick and stone walls; concrete, brick, and asphalt block sidewalks not in replacement and/or repair areas; and any abandoned utilities encountered in the limits of the work, and similar materials. Where the construction of new roadways and/or sidewalks meet existing roadways and/or sidewalks, this item shall include trimming the existing roadways and/or sidewalks to a neat, clean, vertical face, and the top surface for a minimum depth of 1½ inches shall be trimmed to a neat line with a power saw where practicable.

When asphalt surface and binder courses are separately removed from existing concrete bases, this removal shall be designated as Stripping Excavation.

### **202.04 MACADAM AND OLD MATERIAL ROADWAY EXCAVATION**

Macadam and Old Material Roadway Excavation shall include the removal of bituminous (penetration) macadam, waterbound macadam, and old material roadway when removed and disposed of separately from soils base, and shall include the disposal of all surplus material.

### **202.05 STRIPPING EXCAVATION**

Stripping Excavation shall include removing scaled and deteriorated portland cement concrete and/or

asphaltic concrete from existing pavements to the depth specified or as directed by the Engineer.

## **202.06 CONSTRUCTION REQUIREMENTS**

The Contractor shall notify the Engineer a sufficient length of time in advance of the beginning of any excavation, so that cross-section elevations and measurements may be taken of the undisturbed ground.

Excavation shall be cut accurately to grade and cross-section as required, within the limits designated. All earth slopes shall be finished to neat lines, with toe and top of slopes appropriately rounded. Work shall be done in proper sequence with all other operations involved.

Removal of existing paving, sidewalk, and curb shall be for the full depth thereof and shall include any base courses. The Contractor shall use tools, equipment, and methods which shall be approved by the Engineer for cutting, breaking and trimming. Removal of materials to the neat lines as shown in the contract documents shall be as directed by the Engineer, with minimum damage to pavement, sidewalk, and curbs that are to remain. Damage done at these locations shall be repaired and restored by the Contractor at his expense.

In replacing existing pavements, the Contractor shall cut or break all pavement within 1 foot of the walls or roofs of public or District utility structures. Proper care shall be taken by the Contractor to protect these structures against damage and to maintain them in good condition.

All rocks, walls, piers and similar structures encountered within the area of the roadbed shall be removed to a depth of at least 1 foot below subgrade and backfilled with suitable material.

Excavated areas shall be properly drained at all times. Roadbed soil that is softened by water shall be corrected to the satisfaction of the Engineer at the expense of the Contractor.

Use of explosives shall be by permit and under conditions as directed by the Engineer.

No excavation shall be deposited or stockpiled at any time so as to endanger portions of the new or an existing structure, either by direct pressure or indirectly by overloading banks contiguous to the operation. Material, if stockpiled, shall be stored so as not to interfere with the established sequence of the construction or future work by others as determined by the Engineer. If there is not sufficient area available for stockpiling within the limits of the project, the Contractor will be required to furnish his own area for stockpiling.

All excess and unsuitable material shall be removed from the limits of the work and be disposed of by the Contractor. The Contractor will be required to furnish his own disposal area.

## **202.07 MEASURE AND PAYMENT**

The unit of measure for the various classes of roadway excavation will be the cubic yard. The number of cubic yards will be computed by the average end area method. However, at locations where end area measurements cannot be taken which will produce the requisite accuracy, the Engineer may substitute other methods to determine the correct quantities.

Cross sections will be taken of the undisturbed ground. Any materials removed or excavated before these measurements have been taken will not be included in the number of cubic yards measured. Material excavated below specified elevations, unless ordered by the Engineer, will not be measured. If so ordered, such additional cross-sections as are necessary will be taken.

Any excavation beyond specified limits will not be measured.

The cross-sectional area measured shall not include water or other liquid, but shall include mud, muck, or similar semisolid material which has not been disturbed by the Contractor and which cannot be drained away.

The number of cubic yards of Roadway Excavation removed will be paid for at the contract unit price per cubic yard, which payment will include the excavation of all material, all grading, draining cut areas, undercutting soft and unstable areas in the roadbed and/or embankment, the removal and disposal of all material, and all labor, materials, tools, equipment, and incidentals necessary to complete the work as specified herein.